WHAT IS CLAIMED IS:

- 1 1. A key delivery apparatus that manages a decryption key
- 2 for decrypting an encrypted content and a suppliable number
- 3 showing how many times the decryption key is suppliable, with
- 4 respect to a terminal apparatus connected to a network,
- 5 comprising:
- a receiving unit operable to receive, from the terminal
- 7 apparatus, a supply request for the decryption key;
- 8 a supply judging unit operable, if the terminal
- 9 apparatus is a legitimate supply target, to judge whether
- 10 the terminal apparatus is one of a first-type terminal
- 11 apparatus that manages a content-usage period and a
- 12 second-type terminal apparatus that does not manage the
- 13 content-usage period; and
- a key supply unit operable, if the suppliable number
- 15 has a remaining number, to supply to the terminal apparatus,
- 16 the decryption key and a key-usage period of the decryption
- 17 key when judged that the terminal apparatus is the first-type
- 18 terminal apparatus and the decryption key when judged that
- 19 the terminal apparatus is the second-type terminal apparatus,
- 20 wherein
- 21 the supply judging unit judges the terminal apparatus
- 22 to be the first-type terminal apparatus if the terminal
- 23 apparatus records the encrypted content, the decryption key,

- 24 and the key-usage period onto a portable recording medium.
- 1 2. The key delivery apparatus of claim 1, wherein
- the network is a home network connected to an external
- 3 network, contents are received from outside the home network,
- 4 and the key delivery apparatus judges terminal apparatuses
- 5 connected to the home network to be legitimate supply
- 6 targets.
- 1 3. The key delivery apparatus of claim 1, further comprising:
- 2 a key-information storage unit operable to store the
- 3 key-usage period subsequent to supply of the decryption key
- 4 and the key-usage period to the first-type terminal
- 5 apparatus;
- a period judging unit operable to judge whether the
- 7 key-usage period has expired; and
- a time management unit operable to add "1" to the
- 9 suppliable number when judged that the key-usage period has
- 10 expired.
- 1 4. The key delivery apparatus of claim 3, further comprising:
- 2 a date-time storage unit operable to store at least one
- 3 of a first grouping and a second grouping, the first grouping
- 4 formed from date-time information showing the key-usage

- 5 period and a supply date-time of the decryption key, and
- 6 identification information showing the supply target to be
- 7 the first-type terminal apparatus, and the second grouping
- 8 formed from date-time information showing a supply date-time
- 9 of the decryption key, and identification information
- 10 showing the supply target to be the second-type terminal
- 11 apparatus;
- 12 a date-time judging unit operable to judge whether a
- 13 present date-time has reached the supply date-time; and
- 14 a date-time supply unit operable, when judged that the
- 15 present date-time has reached the supply date-time, to supply
- 16 the decryption key and the key-usage period to the first-type
- 17 terminal apparatus or the decryption key to the second-type
- 18 terminal apparatus, based on the identification information.
- 5. The key delivery apparatus of claim 4, further comprising:
- a search requesting unit operable to notify, to the
- 3 first-type terminal apparatus and the second-type terminal
- 4 apparatus, search information showing the decryption key;
- 5 and
- a proprietary information receiving unit operable to
- 7 receive information indicating that the decryption key is
- 8 being held, from whichever of the first-type terminal
- 9 apparatus and the second-type terminal apparatus holds the

- 10 decryption key.
- 1 6. The key delivery apparatus of claim 5, wherein
- 2 the key delivery apparatus stores secret information
- 3 used as a reference in judging whether the terminal apparatus
- 4 is a legitimate supply target,
- 5 the supply judging unit includes an authentication
- 6 subunit operable to judge whether the terminal apparatus
- 7 holds the secret information, and
- 8 the supply judging unit judges the terminal apparatus
- 9 to be a legitimate supply target when judged that the terminal
- 10 apparatus holds the secret information.
- 1 7. The key delivery apparatus of claim 6, wherein
- 2 the key supply unit includes a remaining number judging
- 3 subunit operable to judge whether the suppliable number is
- 4 greater than a predetermined reference number, and
- 5 the key supply unit judges the suppliable number to have
- 6 the remaining number when judged that the suppliable number
- 7 is greater than the predetermined reference number.
- 1 8. The key delivery apparatus of claim 7, wherein
- 2 the key supply unit further includes an encryption
- 3 subunit operable to encrypt the decryption key and the

- 4 key-usage period when the decryption key and the key-usage
- 5 period are to be supplied to the first-type terminal
- 6 apparatus, and to encrypt the decryption key when the
- 7 decryption key is to be supplied to the second-type terminal
- 8 apparatus, and
- 9 the key supply unit, when judged that the suppliable
- 10 number has the remaining number, supplies to the terminal
- 11 apparatus, the encrypted decryption key and the encrypted
- 12 key-usage period when judged that the terminal apparatus is
- 13 the first-type terminal apparatus and the encrypted
- 14 decryption key when judged that the terminal apparatus is
- 15 the second-type terminal apparatus.
- 9. The key delivery apparatus of claim 8, further comprising:
- 2 a historical information storage unit operable to store
- 3 historical information showing a connection date-time of the
- 4 first-type terminal apparatus;
- a connection judging unit operable to judge, using the
- 6 connection date-time, whether the first-type terminal
- 7 apparatus was connected within a predetermined connection
- 8 period; and
- 9 a connection management unit operable to add "1" to the
- 10 suppliable number when judged that the first-type terminal
- 11 apparatus was not connected within the connection period.

- 1 10. The key delivery apparatus of claim 8, further
- 2 comprising:

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- a frequency storage unit operable to store a usage
- 4 frequency of the decryption key by the first-type terminal
- 5 apparatus;
- a frequency judging unit operable to judge whether the
- 7 usage frequency has reached a predetermined reference
- 8 frequency; and
- 9 a connection management unit operable to add "1" to the
- 10 suppliable number when judged that the usage frequency has
- 11 reached the reference frequency.
- 1 11. A terminal apparatus that receives, via a network, supply
- 2 of a decryption key for decrypting an encrypted content from
- 3 a key delivery apparatus that manages the decryption key,
- 4 comprising:
- 5 a requesting unit operable to request the key delivery
- 6 apparatus for the decryption key;
- 7 a key reception unit operable to receive the decryption
- 8 key from the key delivery apparatus, when judged in the key
- 9 delivery apparatus that supply of the decryption key is
- 10 possible;
- 11 a detecting unit operable to detect an end of content
- 12 usage conducted using the decryption key; and

- an end notifying unit operable, when detected that
- 14 content usage has ended, to delete the decryption key, and
- 15 notify to the key delivery apparatus, usage-ended
- 16 information showing that usage of the decryption key has
- 17 ended.
- 1 12. The terminal apparatus of claim 11, further comprising:
- a usage unit operable to decrypt the encrypted content
- 3 using the decryption key to generate a content, and to use
- 4 the content, wherein
- 5 the detecting unit detects the end of content usage by
- 6 the usage unit.
- 1 13. The terminal apparatus of claim 12, wherein
- the key reception unit includes a decryption subunit
- 3 operable, when the decryption key is to be received, to
- 4 receive an encrypted decryption key, and to decrypt the
- 5 encrypted decryption key to generate the decryption key.
- 1 14. The terminal apparatus of claim 11, wherein
- 2 the key reception unit further receives a key-usage
- 3 period of the decryption key from the key delivery apparatus,
- 4 the terminal apparatus manages a content-usage period,
- 5 and further comprises a period judging unit operable to judge

- 6 whether the key-usage period has expired, and
- 7 the detecting unit detects that content usage has ended
- 8 when judged that the key-usage period has expired.
- 1 15. The terminal apparatus of claim 12, wherein
- the key reception unit includes a decryption subunit
- 3 operable, when the decryption key and a key-usage period of
- 4 the decryption key are to be received, to receive an encrypted
- 5 decryption key and an encrypted key-usage period, and to
- 6 decrypt the encrypted decryption key and the encrypted
- 7 key-usage period to generate the decryption key and the
- 8 key-usage period.
- 1 16. The terminal apparatus of claim 11, further comprising:
- 2 a proprietary judging unit operable to receive, from
- 3 the key delivery apparatus, search information showing the
- 4 decryption key, and to judge whether the decryption key is
- 5 held in the terminal apparatus, using the search information;
- 6 and
- a proprietary notifying unit operable, when judged that
- 8 the decryption key is held in the terminal apparatus, to
- 9 notify to the key delivery apparatus, information indicating
- 10 that the decryption key is held in the terminal apparatus.

- 1 17. A portable recording medium that receives supply of a
- 2 decryption key for decrypting an encrypted content from a
- 3 key delivery apparatus that manages the decryption key,
- 4 comprising:
- a key reception unit operable to receive the decryption
- 6 key and a key-usage period of the decryption key from the
- 7 key delivery apparatus, when judged in the key delivery
- 8 apparatus that supply of the decryption key is possible; and
- a key-information storage unit operable to store the
- 10 decryption key and the key-usage period.
- 1 18. The recording medium of claim 17, wherein
- the key reception unit includes a decryption subunit
- 3 operable, when the decryption key and the key-usage period
- 4 of the decryption key are to be received, to receive an
- 5 encrypted decryption key and an encrypted key-usage period,
- 6 and to decrypt the encrypted decryption key and the encrypted
- 7 key-usage period to generate the decryption key and the
- 8 key-usage period.
- 1 19. The recording medium of claim 17, further comprising:
- a period judging unit operable to judge whether the
- 3 key-usage period has expired; and
- a deletion unit operable to delete the decryption key

- 5 and the key-usage period when judged that the key-usage
- 6 period has expired.
- 1 20. The recording medium of claim 17, further comprising:
- a proprietary judging unit operable to receive, from
- 3 the key delivery apparatus, search information showing the
- 4 decryption key, and to judge whether the decryption key is
- 5 held in the recording medium, using the search information;
- 6 and
- 7 a proprietary notifying unit operable, when judged that
- 8 the decryption key is held in the recording medium, to notify
- 9 to the key delivery apparatus, information indicating that
- 10 the decryption key is held in the recording medium.
- 1 21. A key delivery system comprising (i) a key delivery
- 2 apparatus that manages a decryption key for decrypting an
- 3 encrypted content and a suppliable number showing how many
- 4 times the decryption key is suppliable, with respect to a
- 5 terminal apparatus connected to a network, (ii) a first-type
- 6 terminal apparatus that manages a content-usage period, and
- 7 (iii) a second-type terminal apparatus that does not manage
- 8 the content-usage period, the key management apparatus
- 9 including:
- 10 a receiving unit operable to receive, from the terminal

- 11 apparatus, a supply request for the decryption key;
- a supply judging unit operable, if the terminal
- 13 apparatus is a legitimate supply target, to judge whether
- 14 the terminal apparatus is one of the first-type terminal
- 15 apparatus and the second-type terminal apparatus; and
- a key supply unit operable, if the suppliable number
- 17 has a remaining number, to supply to the terminal apparatus,
- 18 the decryption key and a key-usage period of the decryption
- 19 key when judged that the terminal apparatus is the first-type
- 20 terminal apparatus and the decryption key when judged that
- 21 the terminal apparatus is the second-type terminal apparatus,
- 22 wherein
- 23 the supply judging unit judges the terminal apparatus
- 24 to be the first-type terminal apparatus if the terminal
- 25 apparatus records the encrypted content, the decryption key,
- 26 and the key-usage period onto a portable recording medium,
- 27 the first-type terminal apparatus receives from the key
- 28 delivery apparatus and stores the decryption key and the
- 29 key-usage period, and
- 30 the second-type terminal apparatus receives the
- 31 decryption key from the key delivery apparatus, and uses the
- 32 decryption key in content usage.
- 1 22. A key supply method used in a key delivery apparatus that

- 2 manages a decryption key for decrypting an encrypted content
- 3 and a suppliable number showing how many times the decryption
- 4 key is suppliable, with respect to a terminal apparatus
- 5 connected to a network, comprising the steps of:
- 6 receiving, from the terminal apparatus, a supply
- 7 request for the decryption key;
- gudging, if the terminal apparatus is a legitimate
- 9 supply target, whether the terminal apparatus is one of a
- 10 first-type terminal apparatus that manages a content-usage
- 11 period and a second-type terminal apparatus that does not
- 12 manage the content-usage period; and
- supplying to the terminal apparatus, if the suppliable
- 14 number has a remaining number, the decryption key and a
- 15 key-usage period of the decryption key when judged that the
- 16 terminal apparatus is the first-type terminal apparatus and
- 17 the decryption key when judged that the terminal apparatus
- 18 is the second-type terminal apparatus.
- 1 23. A key supply computer program used in a key delivery
- 2 apparatus that manages a decryption key for decrypting an
- 3 encrypted content and a suppliable number showing how many
- 4 times the decryption key is suppliable, with respect to a
- 5 terminal apparatus connected to a network, comprising the
- 6 steps of:

- 7 receiving, from the terminal apparatus, a supply
- 8 request for the decryption key;

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- 9 judging, if the terminal apparatus is a legitimate
- 10 supply target, whether the terminal apparatus is one of a
- 11 first-type terminal apparatus that manages a content-usage
- 12 period and a second-type terminal apparatus that does not
- 13 manage the content-usage period; and
- supplying to the terminal apparatus, if the suppliable
- 15 number has a remaining number, the decryption key and a
- 16 key-usage period of the decryption key when judged that the
- 17 terminal apparatus is the first-type terminal apparatus and
- 18 the decryption key when judged that the terminal apparatus
- 19 is the second-type terminal apparatus.
- 1 24. A computer-readable recording medium storing a key supply
- 2 computer program used in a key delivery apparatus that
- 3 manages a decryption key for decrypting an encrypted content
- 4 and a suppliable number showing how many times the decryption
- 5 key is suppliable, with respect to a terminal apparatus
- 6 connected to a network, the computer program comprising the
- 7 steps of:
- 8 receiving, from the terminal apparatus, a supply
- 9 request for the decryption key;
- judging, if the terminal apparatus is a legitimate

- 11 supply target, whether the terminal apparatus is one of a
- 12 first-type terminal apparatus that manages a content-usage
- 13 period and a second-type terminal apparatus that does not
- 14 manage the content-usage period; and
- supplying to the terminal apparatus, if the suppliable
- 16 number has a remaining number, the decryption key and a
- 17 key-usage period of the decryption key when judged that the
- 18 terminal apparatus is the first-type terminal apparatus and
- 19 the decryption key when judged that the terminal apparatus
- 20 is the second-type terminal apparatus.